

Phil Hayward

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Professional Summary

Experienced Full-Stack Software Engineer with 25+ years of success building secure, scalable, and user-focused applications across diverse sectors—including scientific software, gaming, and security-critical systems. Proven ability to deliver end-to-end solutions using modern stacks: C#/.NET 9, React, Blazor, Python, RESTful APIs, and cloud platforms (Azure/AWS). Adept at working independently in fully remote teams, owning features from design through deployment, and mentoring junior developers. Passionate about clean architecture, system reliability, and solving real user problems with pragmatic code.

Technical Skills

Languages: C#, C++17, Python, JavaScript/TypeScript, R

Frontend: React, Blazor, WPF/MVVM, HTML/CSS

Backend: .NET Core / .NET 9, REST/gRPC APIs, Entity Framework

Databases: SQL Server, MySQL, PostgreSQL, Azure SQL

Cloud & DevOps: Azure (Functions, Key Vault, Managed Identities), AWS, Docker, CI/CD, Git, Jira

Data & Integration: ETL pipelines, JSON/XML, Power Query, OpenXML

Practices: Agile/Scrum, TDD, microservices, secure-by-design, remote-first collaboration

Professional Experience

Full-Stack Developer, Brand & Deliver – Sheffield (Hybrid) *Dec 2024 – Present*

- Architected and delivered .NET 9 + React (TypeScript) SaaS applications hosted on Azure
- Built Python-based ETL pipelines to automate data ingestion into Azure SQL
- Developed intuitive Blazor and React UIs for non-technical users, improving workflow efficiency
- Secured applications using Azure Managed Identities and Key Vault—eliminating hardcoded secrets

Lead Software Engineer, Lockwood Publishing – Nottingham (Remote) *Nov 2021 – Oct 2024*

- Led cryptographic upgrades and endpoint hardening across AWS infrastructure
- Built cross-platform test automation frameworks (Python/.NET) that improved QA efficiency
- Integrated Snowflake and Power Query to enable self-service analytics for product teams
- Delivered GDPR-compliant consent management project for worldwide legal compliance

Senior Software Engineer, Certara (Simcyp) – Sheffield 2008 – Nov 2021

- Developed high-performance C++ simulation engines and C# WPF frontends for scientific software used worldwide
- Translated complex analytical models (R/Matlab → C++) into real-time, production-grade modules
- Designed secure, anonymised ETL pipelines for EU-funded research projects (C#/Azure)
- Hired and mentored QA engineers; led global product training sessions

Senior Software Engineer (Security Systems), Synectics / CoVi Technologies 2001 – 2008

- Built real-time, multi-threaded C++ video surveillance and forensic playback systems
- Developed C#/ASP.NET control room applications with ANPR integration

Education & Learning

BSc (Hons) Software Engineering (2:1) – Sheffield Hallam University, 1996

Ongoing: Cloud (Azure/AWS), Advanced C++, Data Engineering, Agile/Scrum